



## King County

Department of Natural Resources and Parks

### Wastewater Treatment Division

Carnation Wastewater Treatment Facility Project Team

201 S. Jackson St., KSC-NR-0505

Seattle, WA 98104-3855

PRESORTED  
STANDARD  
U.S. POSTAGE  
**PAID**  
SEATTLE WA  
PERMIT NO.836

## CARNATION WASTEWATER TREATMENT FACILITY

# Wetland/Reclaimed Water FIELD DAY

Saturday, May 6, 2006, 10:30 a.m. - Noon

The information in this newsletter is available on request in accessible formats by calling 206-296-8361 or 711 (TTY).

## FOR MORE INFORMATION:

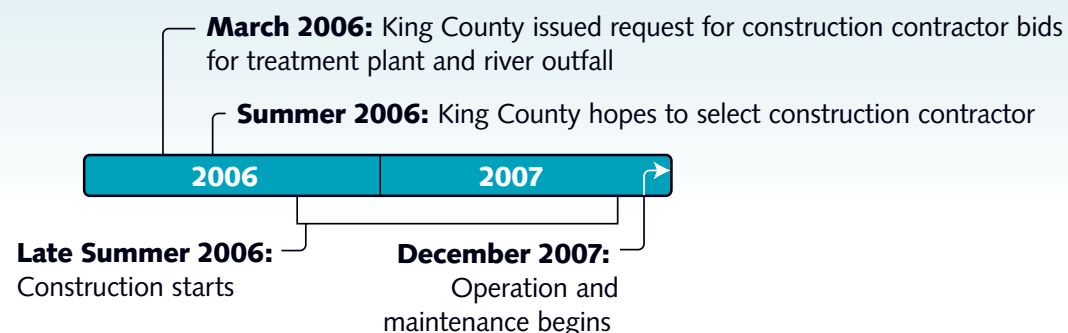
King County and the City of Carnation are committed to keeping people informed about the project. Briefings are available on request.

For information on the treatment plant, call King County's Carnation Wastewater Treatment Plant Project Information Line at **206-263-5212**, toll-free at **1-800-325-6165, ext. 35212**, or e-mail us at [CarnationWWTP@metrokc.gov](mailto:CarnationWWTP@metrokc.gov). Additional information is also available on the project Web site at <http://dnr.metrokc.gov/WTDCarnation/>.

For information on the local sewage-collection system, contact Carnation City Hall at **425-333-4192**, or visit the city's Web site at <http://www.ci.carnation.wa.us/>. City Council meetings are open to the public and the second Tuesday of the month usually has an update on the sewer project.



### PROJECTED CARNATION WASTEWATER TREATMENT FACILITY TIMELINE



King County

# CARNATION WASTEWATER TREATMENT FACILITY PROJECT UPDATE

Spring 2006

## STATUS OF TREATMENT PLANT AND RIVER OUTFALL PERMITTING

King County has acquired nearly all of the local, state and federal permits needed for construction of the project. One of the permits has been appealed and this appeal may delay the project. We will keep you informed through future project updates. Once all the required permits are in hand, the county can proceed with the bid process to select a construction contractor.

Project permits specify the rules or conditions King County must follow in building and operating its facilities. These conditions help minimize impacts and protect community interests. Examples of permitting requirements include developing a traffic control plan to keep traffic moving, establishing work hours, controlling dust and noise, preventing erosion and controlling sediments.

## TREATMENT PLANT BUILDING TO BE "GREEN"

King County is proud to announce that the new operations building for the Carnation Wastewater Treatment Facility will incorporate sustainable or "green" design features. This means that the building will conserve resources and benefit the environment by:

- Using regionally-available materials and materials with recycled content
- Recycling construction waste where possible
- Designing outdoor lighting to minimize off-site glare
- Selecting native, drought-tolerant plants for landscaping
- Using energy-efficient equipment
- Designing to maximize daylight to light indoor spaces
- Conserving water by installing high-efficiency fixtures.

King County will seek certification using a national rating system called LEED™, or Leadership in Energy and Environmental Design™. For more information on LEED™ visit King County's Web site at <http://www.metrokc.gov/dnr/swd/greenbuilding/index.asp>.

## County Issues Request for Bids for Construction of Treatment Plant and River Outfall



In March 2006, King County issued the request for contractor bids for the Carnation Wastewater Treatment Plant and river outfall. If the remaining permitting and bid processes go smoothly, King County would select a construction contractor in summer 2006. Construction of the treatment plant would then begin later this summer and be completed in late 2007. This would allow the county to meet its commitment to the city to have the new treatment plant in operation by the end of 2007.

The City of Carnation has issued bid packages for construction of the pump station and collection system that will bring wastewater from homes and businesses to the new treatment plant. After the contractor is selected, construction on the pump station and collection system is also expected to begin this summer.

A preconstruction meeting to address community member questions and concerns will be scheduled prior to construction. Once construction begins, the city and the county will work closely with the community to minimize potential construction impacts.

*Creating Resources from Wastewater*



# Chinook Bend Natural Area Wetland Enhancement/Reclaimed Water Project

## MOVING FORWARD WITH THE RECLAIMED WATER PROJECT

**KING COUNTY** is continuing to pursue beneficial uses of reclaimed water from the new Carnation wastewater treatment plant. We are in the planning stage of a project to enhance a wetland area at Chinook Bend Natural Area. The wetland enhancement project offers many environmental benefits, including directly and indirectly enhancing habitat for native wetland plant and animal species. Chinook Bend Natural Area is managed by King County's Water and Land Resources Division. The project will be designed to meet the goals outlined in their Chinook Bend Natural Area Site Management guidelines (found on the Web at <http://dnr.metrokc.gov/wlr/LANDS/natural/chinook-bend.htm>) that specify the area be maintained as open space for habitat protection purposes.



Farm pond at Chinook Bend

### PROJECT DESIGN CONCEPTS INCLUDE:

- Enhancing an existing wetland area on the southwest portion of the Chinook Bend Natural Area
- Introducing Class A Reclaimed Water to enhance the existing wetland. Some wastewater treatment systems use treatment wetlands to complete the treatment of wastewater. In this case, the water will be very highly treated before it gets to the wetland and will be used enhance the wetland hydrology.
- Including site and wetland enhancements following the Chinook Bend site management guidelines such as:
  - Planting native trees and shrubs
  - Enhancing wetland hydrology by closing off the culvert that drains the existing wetland area to restore natural overland flow and connectivity to the Snoqualmie River
  - Accommodating public use that does not harm ecological resources
  - Enhancing educational opportunities

**CONSTRUCTION**, start up and testing of the treatment plant and river outfall is scheduled to be completed by the end of 2007. The enhanced wetland is expected to be in place in late 2008 or 2009. After the wetlands enhancement is completed it will serve as the primary discharge for the plant and the river outfall will serve as a backup.

### What is reclaimed water?

Reclaimed water is wastewater that gets treated to such a high level that it can be used safely and effectively for non-drinking water uses such as landscape and agricultural irrigation, wetland and habitat enhancement, heating and cooling and other industrial processing. Reclaimed water is available year-round, even during dry summer months and periods of drought.

### What is Class A Reclaimed water?

The Washington departments of Ecology and Health assign ratings to different classes of reclaimed water. The Carnation treatment plant will produce the highest class of reclaimed water, Class A. This means it is safe for human contact—but is not approved for drinking. Advanced filtration and disinfection used in the treatment process remove all except a miniscule amount of the bacteria and viruses that could be harmful to people.

## WETLAND/RECLAIMED WATER FIELD DAY SCHEDULED SATURDAY, MAY 6TH

Meet the project team and visit the wetland enhancement project site at Chinook Bend Natural Area.

Saturday, May 6, 2006 from 10:30 a.m. to noon.

Chinook Bend Natural Area, entrance the west side of the Carnation Farm Road Bridge.

### JOIN US AND LEARN ABOUT:

- The Chinook Bend Natural Area
- The proposed wetland enhancement/reclaimed water project
- How the Carnation Wastewater Treatment Plant will protect public health and the environment and turn wastewater into resources.

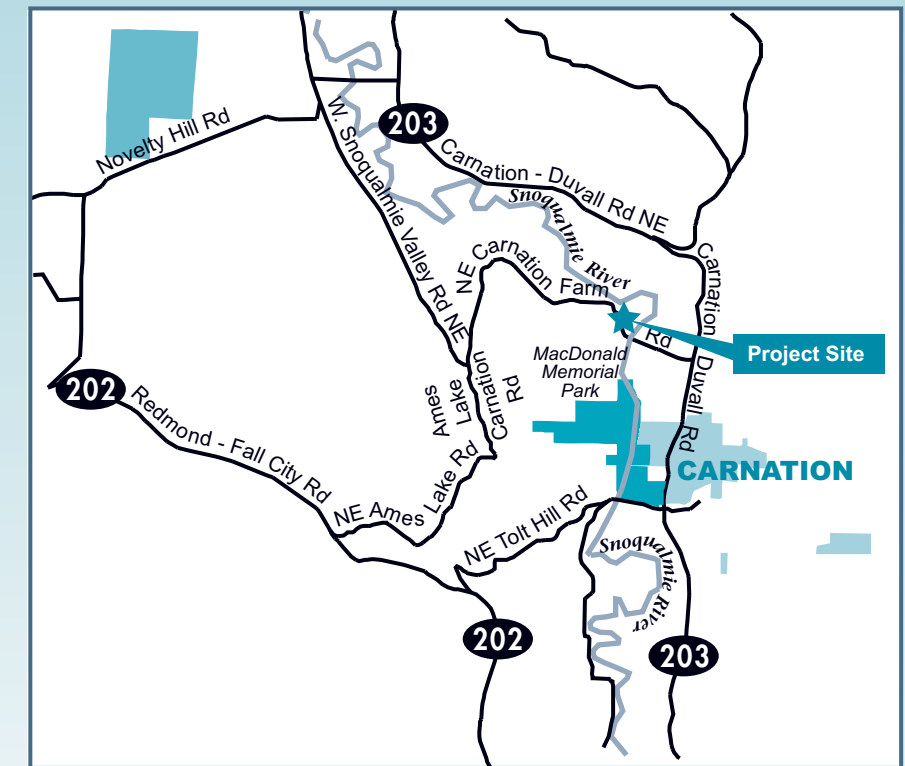
### DIRECTIONS:

#### From SR 520 eastbound:

Take the Fall City/SR 202 exit. Turn right on Redmond-Fall City Road to NE Ames Lake Road and turn left. Follow for 5.6 miles as the road changes names (Ames Lake Road/Ames Lake-Carnation Rd./NE Carnation Farm Rd). You will see the Nestle Regional Training Center on your right. Continue 1.5 miles before turning left at the event signs. If you go over the bridge, you've gone too far.

**From SR 203:** Take NE Carnation Farm Rd. (just north of the town of Carnation), go 0.9 miles until you reach the event signs, just after crossing the bridge over the Snoqualmie River.

**For reasonable accommodations for people with disabilities, please contact the Carnation Wastewater Treatment Facility project team (see reverse side.)**



## PARTNERING FOR SUCCESS

**KING COUNTY** is partnering with Ducks Unlimited to raise funds, and design and construct the wetland enhancement project. Ducks Unlimited has obtained a King County Conservation District grant for a topographic survey and field studies. Ducks Unlimited has also obtained a federal North American Wetland Conservation Act grant to enhance a number of wetlands in the Pacific Northwest, including this one at Chinook Bend.